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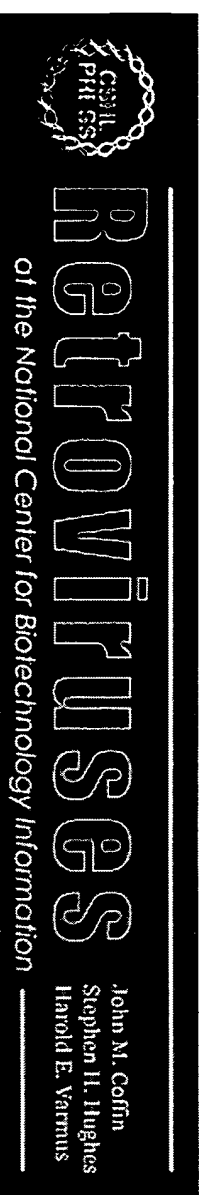
L1 109 S INT6
L2 543826 S L1(W)MAMMARY OR BREAST
L3 0 S L1 AND BREAST (W) EPITHELI?
L4 584679 S L1 (W) ANTIBOD? OR IMMUNOGLOBUL?
L5 51 DUP REM L1 (58 DUPLICATES REMOVED)

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***Retroviruses* → Retroviral Pathogenesis → Oncogenesis**

Table 3. Loci Targeted by Provirus Insertional Mutagenesis

Locus	Functions of product	Retrovirus strain	Species	Tumor cells	Frequency	Preferred proviral configuration ^a	Activating Mechanism ^b	References
<i>Ahl</i>	γadaptor protein	Mo-MLV	mouse	pre-B lymphoma	16%	S, AS	?	Poirier et al. (1988) ; van Lohuizen et al. (1991)
		Mo-MLV	mouse	T-cell lymphoma	15%	S, AS	?	Girard et al. (1996)
<i>Asi</i>	?	Ab-MLV	mouse	stem-cell myeloproliferative disorder	5 cases	?	?	Han et al. (1991)
<i>Bic</i>	?	ALV (RAV-2) +UR2	chicken	B-cell lymphoma	14–50%	S, AS	?	Clurman and Hayward (1989)
<i>Blal</i>	?	Mo-MLV	mouse	B-cell lymphoma	14%	?	?	van Lohuizen et al. (1991)
<i>Bmi1/Flvi2</i>	transcription factor	Mo-MLV	mouse	B-cell lymphoma	25–50%	5'(S, AS), 3'S	3'P, E	Haupt et al. (1991) ; van Lohuizen et al. (1991)
		FelV	cat	T-cell lymphoma	86%	3'(S, AS)	E	Levy and

<i>Evi1/Fim3/ CB-1</i>	transcription factor	Fr-MLV	mouse	myeloblastic leukemia	23%	?	?	(1994) Bordereaux et al. (1987)
		Mo-MLV/Cas-Br-E MLV	mouse	myeloid leukemia cell lines/myelogenous leukemia	10-20%	5'(S, AS)	3'P, E	Morishita et al. (1988); Mucenski et al. (1988); Bartholomew et al. (1989); Bartholomew and Ihle (1991)
<i>Evi3</i>	?	AKXD MLV	mouse	myeloid leukemia	100%	5'(S, AS)	?	Mucenski et al. (1988)
		Cas-Br-E MLV	mouse	non-T, non-B cell lymphoma	20%	5'	?	Bergeron et al. (1992)
		AKXD MLV	mouse	B-cell lymphoma	9%	5'(S, AS)	?	Justice et al. (1994)
<i>Evi5</i>		Cas-Br-M MLV	mouse	pre-B cell lymphoma	1 case	5'(S, AS)	?	Justice et al. (1994)
		AKXD MLV	mouse	T-cell lymphoma, myeloid leukemia, B-cell lymphoma	6%	5'(S)	?	Liao et al. (1995)
<i>Evi9</i>	?	BXH-2 MLV	mouse	myeloid leukemia	1%	?	?	Nakamura et al. (1996)
<i>Fgf3/Int2</i>	fibroblast growth factor	MMTV	mouse	mammary carcinoma	5-65%	5'AS 3'(S, AS)	E	Peters et al. (1983, 1989b); Dickson et al. 1984, 1990; Claude et al. (1993b)
<i>Fgf4/Hsl</i>	fibroblast growth factor	MMTV	mouse	mammary carcinoma	<10%	5'(S, AS), 3'S	E	Peters et al. (1989a); Shackelford et al. (1993)
<i>Fgf8/AlGF</i>	fibroblast growth factor	MMTV	mouse	mammary carcinoma	10%	5'(S, AS)	E	MacArthur et al (1995)

									(1986)
									Ihle et al. (1989)
<i>His1</i>	?	Mo-MLV Cas-Br-M MLV	mouse	T-cell line DA-2 myeloid leukemia cell lines	1 line 6%	5'S 5'S	3'P 5'P,3'P		Askew et al. (1991, 1994)
<i>His2</i>	?	Cas-Br-M MLV	mouse	myeloid leukemia cell lines	4%	?	?		Askew et al. (1991)
<i>Hox2.4/HoxB8</i>	transcription factor	IAP	mouse	myeloid leukemia cell line (WEHI-3B)	1 line	5'S(C)	3'P		Blatt et al. (1988); Kongsuwan et al. (1989)
<i>Hoxa7/Evi7</i>	transcription factor	BXH-2 MLV	mouse	myeloid leukemia	7%	5'(S, AS)	E		Nakamura et al. (1996)
<i>Hoxa9/Evi6</i>	transcription factor	BXH-2 MLV	mouse	myeloid leukemia	3%	5'(S, AS)	E		Nakamura et al. (1996)
<i>IL-2</i>	interleukin-2	Gal V	ape	T-leukemia cell line MLA144	1 line	3'S	E, T		S.J. Chen et al. (1985); Durand et al. (1986)
<i>IL-2 receptor</i>	interleukin-2 receptor	IAP	mouse	T-cell lymphoma line 1 EL.4	1 line	5'S	3'P		Kono et al. (1990)
<i>IL-3</i>	interleukin-3	IAP	mouse	myeloid and myelomonocytic leukemic lines	7 lines	5'(S, AS)	5'P, E		Ymer et al. (1985); Duhser et al. (1990); Leslie et al. (1991)
<i>Int3</i>	Notch-related transmembrane receptor	MMTV	mouse	mammary carcinoma	20%	5'S(C)	3'P		Gallahan and Callahan (1987); Gallahan et al. (1987); Robbins et al. (1992)
<i>IntH/Int5</i>	aromatase	MMTV	mouse	hyperplastic alveolar nodules	3 cases	?	?		Gray et al. (1986); Durgam and Tekmal (1994)
<i>Int-p</i>	?	MMTV	mouse	mammary carcinoma	2 cases	?	?		Schuermann and Michalides

<i>Int6</i>	?	MMTV	mouse	mammary preneoplasia; mammary carcinoma	10%	AS (intron)	T	(1987) Marchetti et al. (1995)
<i>Int41</i>	?	MMTV	mouse	mammary carcinoma, kidney adenocarcinoma	2 cases	?	?	Garcia et al. (1986)
c-Ki-ras	G protein	Fr-MLV	mouse	myeloid cell line 416B	1 line	5'S	3'P	George et al. (1986); Trusko et al. (1989)
<i>Lck</i>	nonreceptor PTK	Mo-MLV	rat	T-cell lymphoma	14%	5'S	5'P, 3'P	Shin and Steffer (1993) Marth et al. (1985); Voronova and Sefton (1986); Adler et al. (1988)
		Mo-MLV	mouse	T-cell lines	2 lines	5'S	5'P	Moskow et al. (1995); Nakamura et al. (1996)
<i>Meis1/Evi8/Evi10</i>	PBX1-related gene	BXH-2 MLV	mouse	myeloid lymphoma	5%	5'(S, AS), 3'S	T	Villeneuve et al. (1993) Mucenski et al. (1987)
<i>Mis2</i>	?	Mo-MLV	rat	T-cell lymphoma	3%	?	?	Tischlis et al. (1984, 1985a, b) Tischlis et al. (1989, 1990); Lazo et al. (1990)
<i>Mvi2</i>	?	AKXD MLV	mouse	T-cell lymphoma	< 5%	?	?	Tischlis et al. (1989, 1990); Lazo et al. (1990)
<i>Mvi3</i>	?	Mo-MLV	rat	T-cell lymphoma	15%	?	?	Tischlis et al. (1989, 1990); Lazo et al. (1990)
<i>Mvi4</i>	?	Mo-MLV	rat	T-cell lymphoma	12%	5'S	5'P, E	Rechavi et al. (1982); Cohen
c-mos	serine/threonine IAP kinase		mouse	myeloma	3 lines	5'(S, AS) (C)	3'P, 5'P, T	Moskow et al. (1995); Nakamura et al. (1996)